## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/33951

A. CLASSIFICATION OF SUBJECT MATTER					
PC(7) : G01N 24/00, 33/00,					
US CL: 436/173, 86, 89, 135 According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 436/173, 86, 89, 135					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.	
X,P	MASTERSON et al. "Lysine Peroxycarbamates: Free	e Radical-Pro	omoted Peptide Cleavage",	1-12, 14-18	
x	J. Am. Chem. Soc., 28 January 2004, v. 126, No. 3, pp. 720-721  JP 53035076A, 01 April 1978 (01.04.1978), Abstract		14-18		
x	US 5,769,901 A (FISHMAN), 23 June 1998 (23. 06.1998), col. 3, lines 9-13 and 25-40		14-18		
A	ELAM et al. "An Alternative Mechansim of Bicarbonate-mediated Peroxidation by Copper-Zinc Superoxide Dismutase", J. Biol. Chem., 06 June 2003, v. 278, No. 23, pp. 21032-21039			1-12, 14-18	
Further	r documents are listed in the continuation of Box C.	S	ee patent family annex.		
	Special categories of cited documents:	"T"	later document published after the indate and not in conflict with the appl	ernational filing date or priority ication but cited to understand the	
	n defining the general state of the art which is not considered to be alar relevance	1	principle or theory underlying the inv	vention .	
"E" earlier ag	pplication or patent published on or after the international filing date		document of particular relevance; the considered novel or cannot be consid when the document is taken alone	e claimed invention cannot be ered to involve an inventive step	
establish specified			document of particular relevance; the considered to involve an inventive st combined with one or more other su being obvious to a person skilled in t	ep when the document is th documents, such combination	
l .	nt referring to an oral disclosure, use, exhibition or other means		11. T		
"P" document published prior to the international filing date but later than the priority date claimed			"&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report  3 1 MAR 2005			
16 March 2005 (16.03.2005)			officer		
Name and m	nailing address of the ISA/US ail Stop PCT, Attn: ISA/US	1		102	
Mail Stop PC1, Attn: ISA/OS Commissioner for Patents P.O. Box 1450		1	Par	alegal Specific	
Ald	exandria, Virginia 22313-1450 o. (703) 305-3230	No. (571) 272-1700	V 14		
	2004				

Form PCT/ISA/210 (second sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

International application No.

	PCT/US04/33951		
Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. II	I Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This Interna Please See C	tional Searching Authority found multiple inventions in this international application, as follows: Continuation Sheet		
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-12 and 14-18		

No protest accompanied the payment of additional search fees.

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Continuation of Item 4 of the first sheet: METHOD OF PROTEIN ANALYSIS BY MALDI USING PROTEIN FRAGMENTATION WITH PEROXYCARBONATES			
BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.			
Group I, claim(s) 1-12 and 14-18, drawn to a method for identifying protein sequences and solutions comprising an amino acid or protein and peroxycarbonate.			
Group II, claim(s) 13, drawn to a compound.			
The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: they do not share any common technical feature, since method or solutions do not comprise a compound of structural formal recited in claim 13.			
Continuation of B. FIELDS SEARCHED Item 3: EAST, STN, Google:			
search terms: MALDI, protein, peptide, amino acid, percarbonate, peroxycarbonate			

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